

CLAIMS

1. A transmitting device, comprising:

a plurality of data transmission antennas;

reception means, for the transmitting device, receiving
an external designation signal designating one of the plurality
of antennas for use in data transmission; and

transmission means transmitting data using the antenna
designated by the designation signal.

2. The transmitting device of claim 1, wherein the reception
means for the transmitting device receives the designation
signal from a remote control device.

3. A transmitting device, comprising:

a plurality of data transmission antennas;

designation means, for the transmitting device,
sequentially designating the plurality of antennas upon
receiving a predetermined instruction; and

transmission means transmitting data using the
sequentially designated antennas.

4. The transmitting device of claim 3, wherein the antenna
designation is carried out every time a predetermined signal
is received from a receiving device which is a device receiving

data transmitted from the transmitting device.

5. The transmitting device of any one of claims 1 to 4,
wherein at least one of the plurality of antennas is positioned
anisotropic to another one of the plurality of antennas.

6. The transmitting device of any one of claims 1 to 5,
wherein the transmission means transmits information
indicating an antenna being used in the transmitting device
to the receiving device.

7. A receiving device, comprising:

a plurality of data reception antennas;

reception means, for the receiving device, receiving an
external designation signal designating one of the plurality of
antennas for use in data reception; and

receiving means receiving data using the antenna
designated by the designation signal.

8. The receiving device of claim 7, wherein the reception
means for the receiving device receives the designation signal
from a remote control device.

9. A receiving device, comprising:

a plurality of data reception antennas;

designation means, for the receiving device, sequentially designating the plurality of antennas upon receiving a predetermined instruction; and

receiving means receiving data using the sequentially designated antennas.

10. The receiving device of claim 9, wherein the antenna designation is carried out every time a predetermined signal is received from a transmitting device which is a device transmitting data to the receiving device.

11. The receiving device of any one of claims 7 to 10, wherein at least one of the plurality of antennas is positioned anisotropic to another one of the plurality of antennas.

12. The receiving device of any one of claims 7 to 11, wherein the receiving means receives information indicating an antenna being used in the transmitting device from the transmitting device,

the receiving device further comprising display means displaying identification information according to the information, received by the receiving means, which indicates the antenna, the antenna being identified using the identification information.

13. The receiving device of any one of claims 7 to 12, wherein the data includes at least video data,

the receiving device further comprising display control means under control of which the display means displays the identification information superimposed on video produced from the received video data.

14. A communications device, comprising:

a plurality of data transmission antennas;

reception means, for a transmission antenna, receiving an external designation signal designating one of the plurality of antennas for use in data transmission; and

transmission means transmitting data using the antenna designated by the designation signal.

15. A communications device, comprising:

a plurality of data transmission antennas;

designation means, for a transmission antenna, sequentially designating the plurality of antennas upon receiving a predetermined instruction; and

transmission means transmitting data using the sequentially designated antennas.

16. A communications device, comprising:

a plurality of data reception antennas;

reception means, for a reception antenna, receiving an external designation signal designating one of the plurality of antennas for use in data reception; and

receiving means receiving data using the antenna designated by the designation signal.

17. A communications device, comprising:

a plurality of data reception antennas;

designation means, for a reception antenna, sequentially designating the plurality of antennas upon receiving a predetermined instruction; and

receiving means receiving data using the sequentially designated antennas.

18. A wireless communications system, comprising the transmitting device of any one of claims 1 to 6 and the receiving device of any one of claims 7 to 13.

19. The wireless communications system of claim 18, further comprising a remote control device transmitting the designation signal to the reception means for the transmitting device.

20. The wireless communications system of claim 18, further comprising a remote control device transmitting the

designation signal to the reception means for the receiving device.

21. A wireless communications system, comprising:

a transmitting device and a receiving device, each including a plurality of anisotropically positioned antennas; and

selection means allowing selections as to whether to individually activate the plurality of antennas in the transmitting device and the receiving device in an inspection step,

wherein:

the transmitting device includes transmission control means activating one of the plurality of antennas according to an instruction from the selection means; and

the receiving device includes reception control means activating one of the plurality of antennas according to an instruction from the selection means,

so that at least one antenna is activated in each of the transmitting device and the receiving device to inspect communications condition for all combinations of the plurality of antennas.

22. A wireless communications system, comprising a transmitting device and a receiving device, each including a

plurality of anisotropically positioned antennas,

wherein:

the transmitting device includes transmission control means activating the plurality of antennas in a predetermined sequence; and

the receiving device includes reception control means activating the plurality of antennas in a predetermined sequence,

so that at least one antenna is activated in each of the transmitting device and the receiving device to inspect communications condition for all combinations of the plurality of antennas.

23. The wireless communications system of either one of claims 21 and 22, wherein the receiving device includes display means displaying incoming video so as to display a symbol representing the active antenna.

24. The wireless communications system of claim 23, wherein the receiving device superimposes the antenna symbol onto an incoming video signal for display.

25. A data transmission method, comprising the steps of:

(a) receiving an external designation signal designating one of a plurality of antennas for use in data transmission;

and

(b) transmitting data using the antenna designated by the designation signal.

5 26. A data transmission method, comprising the steps of:

(c) sequentially designating the plurality of antennas upon receiving a predetermined instruction; and

(d) transmitting data using the sequentially designated antennas.

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27. A data reception method, comprising the steps of:

(e) receiving an external designation signal designating one of a plurality of antennas for use in data reception; and

15 (f) receiving data using the antenna designated by the designation signal.

28. A data reception method, comprising the steps of:

(g) sequentially designating the plurality of antennas upon receiving a predetermined instruction; and

20 (h) receiving data using the sequentially designated antennas.

29. A computer program, causing a computer to operate as the designation means for the transmitting device in the transmitting device of either one of claims 3 and 4.

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30. A computer program, causing a computer to operate as the designation means for the receiving device in the receiving device of either one of claims 9 and 10.

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31. A computer-readable storage medium, containing the computer program of either one of claims 29 and 30.